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ROCKY MOUNTAIN FOREST & RANGE EXPERIMENT STATION
ARIZONA STATE COLLEGE
TEMPE, ARIZONA

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UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

NATIONAL FOREST FACTS
SOUTHWESTERN REGION
ARIZONA AND NEW MEXICO

1944

M—5123

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Rocky Mountain Forest and Range Experiment Station
Forest Hydrology Laboratory
Tempe, Arizona

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ORIGIN OF SOUTHWESTERN NATIONAL FORESTS

Dates of Proclamations and Executive Orders Establishing Them	ARIZONA	NAME OF NATIONAL FOREST
	Apache	
August 17, 1898		Black Mesa Forest Reserve
July 1, 1908		Part of the Black Mesa Forest Reserve became the Apache National Forest
(The above covers only the portion of the Apache National Forest in Arizona)		
	Coconino	
August 17, 1898		San Francisco Mountains Forest Reserve
July 2, 1908		All of the San Francisco Mountains Forest Reserve and parts of the Black Mesa, Tonto and Grand Canyon were consolidated under the name of the Coconino National Forest
	Coronado	
November 5, 1906		Baboquivari Forest Reserve
November 6, 1906		Huachuca Forest Reserve
November 7, 1906		Tumacacori Forest Reserve
July 2, 1908		Baboquivari, Huachuca and Tumacacori Forest Reserves consolidated under the name of the Garces National Forest
April 11, 1902		Santa Rita Forest Reserve
July 2, 1902		Santa Catalina Forest Reserve
May 25, 1907		Dragoon National Forest
July 2, 1908		Santa Rita, Santa Catalina and Dragoon National Forests consolidated under the name of the Coronado National Forest
April 17, 1911		Garces and Coronado National Forests consolidated under the name of the Coronado National Forest
July 30, 1902		Chiricahua Forest Reserve
November 5, 1906		Peloncillo Forest Reserve

Dates of Proclamations and Executive Orders Establishing Them	NAME OF NATIONAL FOREST
	Coronado (continued)
July 2, 1908	Chiricahua and Peloncillo Forest Reserves consolidated under the name of the Chiricahua National Forest. (Portion of the Peloncillo in New Mexico.)
June 6, 1917	Chiricahua and Coronado National Forest consolidated under the name of the Coronado National Forest.
(The above covers the entire Forest situated in Arizona and New Mexico)	
	Crook
July 22, 1902	Mt. Graham Forest Reserve
March 20, 1905	Pinal Mountains Forest Reserve
October 3, 1905	Tonto Forest Reserve
January 13, 1908	Pinal Mountains Forest Reserve became part of the Tonto National Forest.
July 1, 1908	Parts of the Mt. Graham and Tonto National Forests, including the Pinal Mountains area, consolidated under the name of the Crook National Forest
January 23, 1925	518,431 acres transferred from Apache National Forest to Crook National Forest.
	Kaibab
February 20, 1893	Grand Canyon Forest Reserve
July 2, 1908	All of the San Francisco Mountains and parts of the Black Mesa, Tonto and Grand Canyon National Forests consolidated under the name of the Coconino National Forest.
June 28, 1910	Part of the Coconino National Forest together with certain other land not heretofore reserved became the Tusayan National Forest.
May 22, 1908	Dixie National Forest (Arizona)
July 2, 1908	Kaibab National Forest
March 18, 1924	Dixie consolidated with the Kaibab
August 4, 1934	The Tusayan and Kaibab National Forests consolidated

Dates of Proclamation and Executive Orders Establishing Them	NAME OF NATIONAL FOREST
	Prescott
May 10, 1898	Prescott Forest Reserve
December 30, 1907	Verde National Forest
July 2, 1908	Prescott and Verde National Forests consolidated under the name of the Prescott National Forest
October 22, 1934	249,201 acres transferred from Tusayan to Prescott National Forest.
	Sitgreaves
July 1, 1908	Parts of the Black Mesa and Tonto National Forests consolidated under the name of the Sitgreaves National Forest.
	Tonto
October 3, 1905	Tonto Forest Reserve
October 22, 1934	Bloody Basin transferred from Prescott to Tonto National Forest 151,285 acres.
	NEW MEXICO
	Apache
January 23, 1925	A portion of the Datil National Forest was transferred to the Apache National Forest. This portion was originally part of the Magdalena and Gila River Forest Reserves.
	Carson
November 7, 1906	Taos Forest Reserve
July 1, 1908	Carson National Forest created by consolidation of the Taos National Forest and part of the Jemez National Forest.
June 16, 1923	63,708 acres in Taos County transferred from Santa Fe National Forest to Carson National Forest.
	Cibola
October 5, 1906	Mt. Taylor Forest Reserve
November 5, 1906	San Mateo Forest Reserve Magdalena Forest Reserve
November 6, 1906	Manzano Forest Reserve

Dates of Proclamations and Executive Orders Establishing Them	NAME OF NATIONAL FOREST
	Cibola (Continued)
April 16, 1908	Mt. Taylor National Forest consolidated with the Manzano National Forest
June 18, 1908	Creating the Datil National Forest
July 2, 1908	San Mateo National Forest added to the Magdalena National Forest.
February 23, 1909	Magdalena and Datil National Forests consolidated.
March 2, 1909	Zuni National Forest
September 10, 1914	Zuni National Forest consolidated with the Manzano National Forest
December 3, 1931	Name of the Manzano changed to Cibola National Forest and a portion of the Datil transferred to the Cibola.
	Gila
March 2, 1899	Gila River Forest Reserve
February 6, 1907	Big Burros Forest Reserve
June 18, 1908	Consolidating the Big Burros with the Gila National Forest
December 24, 1931	A portion of the Datil was transferred to the Gila National Forest.
	Lincoln
July 26, 1902	Lincoln Forest Reserve
November 5, 1906	Gallinas Forest Reserve
April 19, 1907	Guadalupe National Forest
April 24, 1907	Sacramento National Forest
July 2, 1908	Guadalupe and Sacramento National Forests consolidated as the Alamo National Forest. The Gallinas and Lincoln National Forests consolidated as the Lincoln National Forest.
June 6, 1917 (effective July 1)	The Alamo National Forest transferred to the Lincoln National Forest.

Date of Proclamations and Executive Order Establishing Them	NAME OF NATIONAL FOREST
	Santa Fe
January 11, 1892	Pecos River Forest Reserve
October 12, 1905	Jemez Forest Reserve
July 1, 1908	Pecos River National Forest changed to Pecos National Forest
July 1, 1915	Jemez and Pecos National Forests consolidated as the Santa Fe National Forest
October 3, 1905	Portales Forest Reserve
March, 1907	The Portales National Forest restored to the public domain.

Note: The foregoing covers only changes of name and major transfers. There have been many additions, eliminations and changes in boundaries not listed.

Region 3 1944

NATIONAL FOREST IMPROVEMENTS (GOVERNMENT OWNED) ON JUNE 30, 1943

(Includes Southwestern Forest & Range Exp. Station)

ARIZONA

	Fire Control and Administration	Number	Miles	Construction Cost
1.	Fire Control Improvements			$ 78,993
2.	Lookout Houses, Towers & Observatories	69		
3.	Fire Control Water Facilities			
4.	Firebreaks		13	
	Administration Improvements			
5.	Communication Systems			449,062
6.	Telephone Lines		2188	
7.	Dwellings and Related Improvements			787,548
8.	Dwellings	232		
9.	Other Structures	305		
10.	Water & Sanitary Systems	133		
11.	Warehouses, Shops and Offices			435,016
12.	Offices	53		
13.	Shops	11		
14.	Warehouses	211		
	Total	1014	2201	1,750,619
	Public Service			
15.	Recreation Use Improvements			1,014,046
16.	Campgrounds and Picnic Areas	156		
17.	Swimming Areas	2		
18.	Winter Sports Areas	7		
	Total	165		1,014,046
	Wildlife and Range Use Improvements			
19.	Range Use Improvements			3,038,973
20.	Range Fences and Corrals		6469	
21.	Stock Driveways		176	
22.	Range Water Developments	2174		
23.	Artificial Reseeding (Acres)	2310		
24.	Wildlife Use Improvements			163,176
25.	Game Refuge Fences		7.8	
26.	Fish Rearing Ponds	15		
27.	Stream and Lake Improvements	39		
	Total	4538	6652.8	3,202,149
28.	Soil and Water Control Improvements			327,290
29.	ROADS		5328	9,360,839
30.	TRAILS		3461	538,487
	Total		8789	10,226,616
	GRAND TOTAL	5717	17642.8	16,193,430

RANGER DISTRICTS IN REGION 3

ARIZONA		NEW MEXICO	
Apache National Forest	2	Apache National Forest	3
Coconino " "	6	Carson " "	6
Coronado " "	5	Cibola " "	7
Crook " "	6	Coronado " "	1
Kaibab " "	4	Gila " "	7
Prescott " "	6	Lincoln " "	6
Sitgreaves " "	4	Santa Fe " "	7
Tonto " "	8		
	41		37

TOTAL FOR REGION - 78

Region 3 1944

NATIONAL FOREST IMPROVEMENTS (GOVERNMENT OWNED) ON JUNE 30, 1943

(Includes Southwestern Forest & Range Exp. Station)

	NEW MEXICO			TOTAL R-3		
	Number	Miles	Construction Cost	Number	Miles	Construction Cost
1.			$ 118,468			$ 197,461
2.	50			119		
3.	2			2		
4.		8			21	
5.			635,076			1,084,138
6.		2417			4605	
7.			398,174			1,185,722
8.	148			380		
9.	247			552		
10.	83			216		
11.			282,753			717,769
12.	39			92		
13.	8			19		
14.	133			344		
	710	2425	1,434,471	1724	4626	3,185,090
15.			569,969			1,584,015
16.	113			269		
17.				2		
18.	11			18		
	124		569,969	289		1,584,015
19.			2,285,323			5,324,296
20.		5578			12047	
21.		44.0			220	
22.	777			2951		
23.	306			2616		
24.			82,691			245,867
25.		2.5			10.3	
26.				15		
27.	59			98		
	1142	5624.5	2,368,014	5680	12277.3	5,570,163
28.			476,368			803,658
29.		2731	6,772,372		8059	16,133,211
30.		3385	289,627		6846	828,114
		6116	7,538,367		14905	17,764,983
	1976	14165	11,910,821	7693	31808	28,104,251

Calendar Year

Forest and State	A Less Than ¼ A.	B ¼ A. & Less Than 10 A.	C 10 A. & Less Than 100 A.	D 100 A. & Less Than 300 A.	E Over 300 A.	Total	Class C-D-E Obj.	M.C. Fires	M.C. Obj.
ARIZONA									
Apache	67	36	4			107	2	7	10
Coconino	314	96	10			420	1	60	55
Coronado	45	12	6	3	3	69	9	13	14
Crook	28	10	2	2	3	45	5	2	7
Kaibab	90	25	1	1		117	2	30	39
Prescott	38	20	2	1	1	62	3	14	24
Sitgreaves	92	46	6	1		145	3	17	20
Tonto	58	23	8	1	2	92	3	8	8
Total ARIZONA	732	268	39	9	9	1057	28	151	177
NEW MEXICO									
Apache	35	32	4	1		72	3	6	10
Carson	22	17	2	2		43	2	16	14
Cibola	51	19	5	2		77	6	30	20
Gila	117	94	10	1	1	223	3	12	14
Lincoln	42	16	6	3		67	6	19	18
Santa Fe	64	41	5	3		113	4	19	17
Total NEW MEXICO	331	219	32	12	1	595	24	102	93
Total REGION 3	1063	487	71	21	10	1652	52	253	270

ACREAGE BURNED 1943

Forest and State	Gross Inside Boundaries	Area Burned Objective
ARIZONA		
Apache	280	160
Coconino	516	600
Coronado	982	1040
Crook	2040	350
Kaibab	378	375
Prescott	1596	400
Sitgreaves	393	300
Tonto	3164	300
Total - ARIZONA	9349	3525
NEW MEXICO		
Apache	370	125
Carson	305	150
Cibola	573	300
Gila	2679	700
Lincoln	939	500
Santa Fe	566	200
Total - NEW MEXICO	5432	1975
Total - REGION 3	14781	5500

MAJOR ACCOMPLISHMENTS WITH EMERGENCY ORGANIZATIONS

(Not Including CCC)

April 1, 1933 to December 31, 1941

Activity	Unit	ARIZONA Const.	ARIZONA Maint.	NEW MEXICO Const.	NEW MEXICO Maint.	R-3 TOTAL Const.	R-3 TOTAL Maint.
Truck trails and minor roads	Miles	571	1883	567	4199	1138	6082
Bridges	No.	31	5	41	83	72	88
Horse Trails	Miles	469	479	252	4051	721	4530
Telephone Lines	Miles	162	885	460	3649	622	4534
Fish Stream Improvement	Miles	132	-	202	20	334	20
Range and Other Fences	Miles	1552	446	1581	3188	3133	3634
Water Development	No.	546	45	185	114	731	159
Pipe Lines	Miles	36	8	5	1	41	9
Corrals	No.	11	1	24	8	35	9
Range Surveys	Acres	1498835	-	896999	-	2395834	-
Range Revegetation	Acres	1593	-	519	-	2112	-
Eradication Poisonous Plants	Acres	480	-	931	-	1411	-
Estimating Timber Resources	Acres	500206	-	38500	-	538706	-
Stock Driveways	Miles	16	23	11	98	27	121
Rodent Control	Acres	22986	19680	379889	10432	402875	30112
Timber Stand Imp.	Acres	19787	-	9415	-	29202	-
Tree Disease Control	Acres	12760	7115	6753	836	19513	7951
Tree Insect Control	Acres	13224	6000	2915	-	16139	6000
Dams, Erosion Control	No.	103	5	45	8	148	13
Dams, Imp'd'g., Large Diversion	No.	3	10	5	4	8	14
Recreation Campgrounds	Acres	141	2631	126	666	267	3297
Recreation Structures	No.	175	60	324	725	499	785

MAJOR ACCOMPLISHMENTS WITH EMERGENCY ORGANIZATIONS
(Cont'd)

Activity	Unit	ARIZONA		NEW MEXICO		R-3 TOTAL	
		Const.	Maint.	Const.	Maint.	Const.	Maint.
Fire Breaks	Miles	28	12	4	-	32	12
Admin. Bldgs.	No.	69	74	69	321	138	395
Other Struct. Imps. (Misc.)	No.	103	15	435	162	538	177
Lookout Houses & Towers	No.	11	9	21	11	32	20
Fire Suppression	M-Days	761	-	1039	-	1800	-
Cattle Guards	No.	86	14	75	30	161	44
Signs, Markers and Monuments	No.	242	35	1016	105	1258	140
Erosion Control	Acres	7393	60	7952	-	15345	60
Fire Prevention and Pre-Suppression	M-Days	389	13	729	130	1118	143
Maps and Models	M-Days	111	-	18954	-	19065	-
Marking Boundaries	Miles	56	40	1096	94	1152	134
Surveys, Topographic	Acres	9780	-	86710	-	96490	-

ACCOMPLISHMENTS WITH CCC ORGANIZATIONS

4/1/33 - 12/31/41

Activity	Unit	ARIZONA		NEW MEXICO		R-3 TOTAL	
		Const.	Maint.	Const.	Maint.	Const.	Maint.
Truck trails and minor roads	Miles	1,848	8,616	1,781	14,248	3,629	22,864
Bridges, vehicle	No.	210	87	216	46	426	133
Horse Trails	Miles	537	438	273	472	810	910
Telephone Lines	Miles	1,208	2,982	2,433	4,527	3,641	7,509
Ponds, fish and birds	No.	373	195	60	6	433	201
Fish Stream Improvement	Miles	183	24	223	58	406	82
Range and Other Fences	Miles	2,508	782	2,214	1,005	4,722	1,787
Water Developments	No.	899	143	482	222	1,381	365
Pipe Lines	Miles	7,695	2,597	7,900	7	15,595	2,604
Corrals	No.	62	2	47	3	114	5
Range Revegetation	Acres	3,814	-	8,174	-	11,988	-
Eradication Poisonous Plants	Acres	5,138	-	15,972	1	21,110	1
Estimating Timber Resources	Acres	8,325	-	57	-	8,382	-
Stock Driveways Posting And Improvement	Miles	32	-	4	-	36	-
Rodent Control	Acres	1,147,441	-	425,211	-	1,572,652	-
Timber Stand Improvement	Acres	45,939	-	33,984	-	79,923	-
Tree Disease Control	Acres	64,336	37,084	27,126	4,675	91,462	41,759
Tree Insect Control	Acres	21,205	-	10,967	-	32,172	-
Dams, Erosion Control	No.	64,807	22,860	72,226	2,600	137,033	25,460
Recreation Campgrounds	Acres	1,106	693	560	718	1,666	1,411
Recreation Structures	No.	4,379	877	2,665	776	7,044	1,653

ACCOMPLISHMENTS WITH CCC ORGANIZATIONS
(Continued)

Activity	Unit	ARIZONA Const.	ARIZONA Maint.	NEW MEXICO Const.	NEW MEXICO Maint.	R-3 TOTAL Const.	R-3 TOTAL Maint.
Fire Breaks	Miles	28	55	8	3	36	58
Admin. Bldgs. Barns and Dwellings	No.	135	213	68	121	203	334
Admin, Buildings, Small Garages & Other	No.	265	105	382	148	647	253
Lookout Houses and Towers	No.	39	13	32	27	71	40
Fire Suppression	M-Days	34,303	-	13,559	-	47,862	-

TOTAL CAMP MONTHS, 4/1/33-12/31/41

Arizona	1308
New Mexico	1046
Total R-3	2354

TIMBER MANAGEMENT

TIMBER DATA

Acreage and percent of commercial sawtimber lands

ARIZONA

Ownership of Commercial Sawtimber Areas

	Commercial*	Percent
National Forests	2,330,000	64.6
Indian Reservations	1,215,000	33.7
Other Federal		
State	28,000	.8
	3,573,000	99.1
Private	34,000	.9
Total	3,607,000	100.0

NEW MEXICO

National Forests	2,421,000	60.3
Indian Reservations	428,000	10.7
Other Federal	10,000	.2
State	119,000	2.9
	2,978,000	74.1
Private	1,040,000	25.9
Total	4,018,000	100.0

VOLUME OF TIMBER IN COMMERCIAL FORESTS*

ARIZONA

Ft. B.M.

National Forests	13,842,000,000	71.0
Indian Reservations	5,500,000,000	28.2
Other Federal State	82,000,000	.4
	19,424,000,000	99.6
Private	68,000,000	.4
Total	19,492,000,000	100.0

NEW MEXICO

National Forests	9,596,000,000	69.4
Indian Reservations	608,000,000	4.4
Other Federal	25,000,000	.2
State	526,000,000	3.9
	10,755,000,000	77.9
Private	3,068,000,000	22.1
Total	13,823,000,000	100.0

*Data from Joint Congressional Report.

Estimate of Sawtimber in M ft. B.M. in Southwest - includes non-commodity and non-commercial*

	Arizona	New Mexico
National Forests	14,489,000	11,253,000
Indian Reservations	5,531,000	566,000
Other Federal Lands	545,000	20,000
State	110,000	521,000
Private	118,000	4,837,000
TOTAL	20,793,000	17,197,000

Cordwoods in Cords

National Forests	10,894,000	13,448,000
Other	19,000,000	20,000,000
TOTAL	29,894,000	33,448,000

The total area of woodland forest in Arizona is estimated at 14,855,000 Acres
The total area of woodland forest in New Mexico is estimated at 13,864,000 Acres

Area sawtimber type - Arizona 4,774,000 acres or 6.8% of total
" " " - New Mexico 6,097,000 acres or 7.7% of total
Woodland forests cover 18.9% of total area of the two states.

Area sawtimber type in National Forests of Arizona - 3,072,000
" " " " " " New Mexico - 4,010,000

Total area cutover land, sawtimber type, in Arizona, to January 1, 1944
810,000 acres (Estimated)
Total area cutover land, sawtimber type, in New Mexico, to January 1, 1944
1,212,000 acres (Estimated)

National Forests of Region 3 are:
35% Woodland
34% Sawtimber
31% Untimbered
About 73% of gross area of New Mexico Forests are publicly owned
About 98% of gross area of Arizona Forests are publicly owned.

TIMBER LAND DATA BY PER CENTS - BASED ON AREA
(Includes non-commodity and non-commercial areas)

Arizona		New Mexico	
National Forests	64.9%	National Forests	67.3%
Indian Reservations	30.7	Indian Reservations	5.8
Public Domain	0.4	Public Domain	0.3
National Park	2.3		
Total Federally Owned	98.3%	Total Federally Owned	73.4%
State	0.7	State	2.2
Total Federal & State	99.0%	Total Federal & State	75.6%
Private	1.0	Private	24.4
Grand Total	100.0%	Grand Total	100.0%

*Latest data

M Ft. B. M. Fiscal Year 1943

Forest	Commercial Sales	Cost Sales	Exchange	Total Cut	Total Value	Amount Free Use (M ft.)
Apache	16,066	34	-	16,100	$ 35,417	332
Coconino	38,969	45	-	39,014	102,814	376
Coronado	926	6	-	932	1,916	906
Crook	389	30	-	419	806	135
Kaibab	428	23	-	451	1,086	278
Prescott	1,269	13	-	1,282	3,679	784
Sitgreaves	15,864	10	-	15,874	47,056	903
Tonto	5,003	20	-	5,023	13,082	1,042
ARIZONA	78,914	181	-	79,095	205,856	4,756
Apache	5,057	16	-	5,073	16,758	791
Carson	3,545	670	702	4,917	10,314	5,966
Cibola	5,345	170	4,462	9,977	24,484	1,778
Coronado	-	-	-	-	-	57
Gila	3,534	12	92	3,638	8,043	704
Lincoln	2,242	70	1,615	3,927	9,406	1,896
Santa Fe	12,063	191	13,171	25,425	62,219	2,468
NEW MEXICO	31,786	1,129	20,042	52,957	131,224	13,660
REGION 3	110,700	1,310	20,042	132,052	337,080	18,416

Cumulative Increment of Ponderosa Pine In Different Periods after Cutting
(Data collected and compiled by Southwestern Forest and Range Exp. Station)

Residual Volume	Years After Cutting						
	5	10	15	15	20	25	30
Ft. b.m.	Ft. B.M.	Ft. B.M.	Ft. B.M.	Percent	Ft.B.M.	Ft.B.M.	Ft. B.M.
200	50	145	200	7.3	320	420	520
600	100	250	390	4.3	520	670	800
1,000	165	325	495	3.3	680	870	1,030
2,000	260	515	805	2.7	1,090	1,340	1,610
3,000	350	700	1,125	2.5	1,550	1,825	2,230
4,000	460	900	1,410	2.4	1,910	2,430	2,900
5,000	540	1,050	1,640	2.2	2,240	2,800	3,350
6,000	620	1,220	1,850	2.0	2,550	3,250	3,875
7,000	670	1,350	2,070	2.0	2,800	3,550	4,250
8,000	735	1,480	2,250	1.9	3,050	3,950	4,650
9,000	775	1,550	2,400	1.8	3,200	4,050	4,700
10,000	800	1,650	2,500	1.7	3,250	4,000	4,800

(Note: Increment volumes in lower portion of table are subject to considerable error due to too few plots. Volumes beyond 20 years were obtained by extending curve.)

NUMBER OF TREE SPECIES

According to U. S. Department of Agriculture, Misc. Circular No. 92, "Check List of the Forest Trees of the United States" there are 131 species of trees in Region 3.

Of these 131 species four make up 98% of volume of the sawtimber stand. Ponderosa pine (Pinus ponderosa) making up 82% of the volume; Douglas fir (Pseudotsuga taxifolia) making up 10% of the volume; White fir (Abies concolor) making up 3% of the volume; Engelmann spruce (Picea engelmannii) making up 3% of the volume; and Mexican white pine (Pinus strobiformis), Corkbark fir (Abies Arizonica) limber pine (Pinus flexilis), etc., making up the remainder of the volume.

TOTAL CUT SAWTIMBER BY STATES

Data from Census (Calendar Year)
(All Ownerships)

Year	Number Mills Reporting: Arizona	New Mexico	Total Cut M.F.B.M.: Arizona	New Mexico	M. F. B. M. Total: Arizona and New Mexico
1927:	26	73	169,000	173,000	342,000
1928:	25	77	158,000	162,000	320,000
1929:	31	78	175,000	148,000	323,000
1930:	26	76	95,000	143,000	238,000
1931:	26	57	85,000	58,000	143,000
1932:	22	52	58,000	72,000	130,000
1933:	28	55	90,000	89,000	179,000
1934:	34	74	73,000	101,000	174,000
1935:	29	79	98,716	126,220	224,936
1936:	36	87	123,411	140,840	264,251
1937:	39	105	123,041	164,446	287,487
1938:	37	94	118,200	125,176	243,376
1939:	42	98	119,206	106,227	225,433
1940:	41	100	128,776	112,786	241,562
1941:	42	119	130,567	114,612	245,179
1942:	38	138	143,286	122,958	266,244

The sawtimber forests of Arizona and New Mexico have supplied sawtimber for the production of approximately nine billion board feet of sawn products during the period 1879 to 1943 inclusive.

TOTAL CUTS FROM NATIONAL FORESTS

All classes of products converted to M ft. All classes of Forest Sales.

Calendar Year

	Commercial Sales & Exchange					Free Use		
	S-22							
Year:	Ari-zona:	New Mexico:	Arizona:	New Mex.:	Total Ari-zona & New Mexico:	Average Price per M ft.:	Arizona:	New Mexico: Total
1927:	334:	679	69,896:	14,353	84,249	$2.65	6,767:	10,038: 16,805
1928:	378:	695	93,117:	18,854	112,031	2.51	6,590:	7,643: 14,233
1929:	261:	595	143,575:	33,161	176,736	2.49	7,337:	10,614: 17,951
1930:	269:	907	85,476:	36,194	121,670	2.33	8,670:	15,818: 24,488
1931:	257:	953	80,862:	14,865	95,727	2.34	10,342:	22,503: 32,845
1932:	371:	827	57,206:	10,714	67,920	2.31	12,876:	27,962: 40,838
1933:	284:	813	75,998:	14,196	90,194	2.38	*14,623:	29,255: 43,878
1934:	508:	774	34,944:	12,826	47,770	2.35	14,568:	23,485: 38,053
1935:	391:	841	78,648:	17,398	96,046	2.23	15,395:	26,725: 42,120
1936:	484:	936	91,670:	34,912	126,582	2.34	13,593:	22,253: 35,846
1937:	572:	1,144	91,902:	50,631	142,533	2.24	7,902:	25,332: 33,234
1938:	519:	1,055	69,334:	36,763	106,097	2.19	8,117:	25,452: 33,569
1939:	250:	846	65,166:	31,934	97,100	2.18	8,381:	24,111: 32,492
1940:	274:	964	74,360:	40,120	114,480	2.30	8,976:	28,674: 37,650
1941:	222:	847	79,079:	29,102	108,181	2.45	6,767:	29,850: 36,617
1942:	238:	865	74,795:	44,325	119,120	2.48	6,575:	20,588: 27,163
1943:	208:	1,202	77,426:	52,851	130,277	2.82	4,756:	13,660: 18,416

*Previous figures on "Free Use" are calendar year. Subsequent years are fiscal year.

Handled under cooperative agreement (State timber) 5,601 M (C.Y. 1943)
Handled under cooperative agreement (Private timber) 13,053 M (C.Y. 1943)

STATUS OF CUTTING IN NEW MEXICO - 1942

Total cut (estimated) 118,000 M feet log scale

		%
National Forest	44,325 M feet	37.6
Indian Reservations	20,175 "	17.1
State (handled by Forest Service)	5,628 "	4.8
State (handled by State)	8,750 "	7.4
Private (handled by Forest Service)	7,978 "	6.8
Private (handled by Co. under cooperative agreement)	500 "	0.4
Private (handled by S.C.S. under cooperative agreement)	200 "	.1
Private (some restrictions) railroad lands, timber rights, etc.	10,900 "	9.2
Private (no restrictions except state law)	19,544 "	16.6
TOTAL	118,000 "	100.0

Total cut from private lands 39,122 " 100.0
Regulated cut - - - - 19,578 M - 50%
Unregulated cut - - - - 19,544 M - 50%

STATUS OF CUTTING IN ARIZONA - 1942

Total cut (estimated) 138,000 M feet log scale

		%
National Forests	82,137 M feet	59.52
Indian Reservations	54,000 "	39.13
State (handled by Forest Service)	237 "	.17
Timber Rights (under T.R. agreement)	334 "	.24
Private (handled by Forest Service)	792 "	.58
Private (no restrictions)	500 "	.36
TOTAL	138,000 "	100.00

STATUS OF TIMBER CUT IN NEW MEXICO, 1941 and 1942

	Percent of Total	
	1941	1942
National Forest	23	37.6
Indian Reservations	9	17.1
State of New Mexico (F.S. Coop.)	11	4.8
State (other)	3	7.4
Private (F.S. Coop.)	11	6.8
Private (handled by company under coop. agreement)	11	0.5
Private (timber rights and railroad lands-minor restrictions)	13	9.2
Private (no restrictions except State law)	19	16.6
TOTAL	100	100.0
	112,000 M ft.	118,000 M ft.

1942 - Private land cut - 39,122 M ft.
Regulated cut - 19,578 M ft. 50%
Unregulated cut 19,544 " 50%

COMPARATIVE PAINTABILITY OF DIFFERENT SPECIES OF WOODS

Group No.	Description of Group	Species
1	Woods on which paints of types A and B disintegrate slowly	Softwoods Cedars Southern cypress Redwood
2	Woods on which paints of type A disintegrate slowly but those of type B disintegrate somewhat more rapidly than they do on woods of group 1	Softwoods Northern white pine Sugar pine Western (Idaho) White pine
3	Woods on which paints of types A and B disintegrate more rapidly than they do on woods of group 1	Hardwoods Aspen Cottonwoods Yellow poplar Softwoods White fir Hemlock Lodgepole pine Ponderosa pine Engelmann spruce Sitka spruce
4	Woods on which paints of types A and B disintegrate more rapidly than they do on woods of Group 3	Hardwoods Beech Birch Maple Gums Softwoods Douglas fir Norway pine Southern yellow pine Western larch
5	Woods unsuitable for conventional house painting because wood filler is required to fill the pores properly.	All hardwoods with pores larger than those in birch, such as ash, chestnut, elm, Hickory, oak, walnut

NOTE: Paints of type A are those that fail by checking and crumbling such as pure white lead paint; those of type B fail by cracking, curling, and flaking, such as paints containing zinc oxide mixed with other pigments.

COMPARATIVE DECAY RESISTANCE OF HEARTWOOD OF LOCAL AND FREQUENTLY-USED OUTSIDE SPECIES

(Applies only to heartwood, untreated. Sapwood of no species is durable under conditions favoring decay; i.e., in contact with soil, poorly-drained or aerated parts of buildings, bridges, etc.)

Durable Group

- Cedars
- Junipers
- Black Locust
- Osage Orange
- Redwood
- Southern cypress

Nearly as Durable Group

- White oaks
- Honey locust
- Dense Douglas fir
- Dense southern pine
- Dense larch

High Intermediate Group

- Cypress (Cupressus)
- Douglas fir (unselected)
- Southern pine (unselected)
- Larch (unselected)

Low Intermediate Group

- Red Oaks
- Pines (other than southern)
- Spruces
- Maple (hard and red)
- Ashes
- Hemlocks

Nondurable Group

- True firs (concolor, alpine, balsam, etc.)
- Aspen
- Cottonwood
- Willows

NOTE: When used under decay-inducing conditions the woods in the last three groups should be treated with an approved preservative and in so treating sapwood all around is preferable.

SOME WOOD UTILIZATION FACTS

All other things being equal, that is, grade for grade:

1. Sapwood of any species is as strong when used as a beam or post and as stiff as the heartwood of that species.

2. Red (heartwood) hickory tool handles are as strong as white (sapwood) handles.

3. Timber cut from dead trees (free from decay) is as strong as that cut from live trees.

4. The harder the wood the higher its nail-holding power but the more easily it splits. Conversely, the softer the wood the lower its nail-holding power but the less easily it splits. Hence, use slimmer and more nails in hardwoods and larger and less nails in softwoods.

5. Good air-seasoned wood and good kiln-dried wood of the same species at the same moisture content are of equal strength.

6. From the principal property standpoints the oaks are classed commercially in two groups - white and red. Thus the three important southwestern species of oak are of approximately equal value and behavior in use.

   Arizona white oak (Q. arizonica)
   Emory oak (Q. emoryi)
   Rocky mountain white oak (Q. utahensis)

7. Sapwood of no species is durable.

8. In untreated condition, with the same proportion of heartwood present, there is no difference in durability of round and split posts but splitting often changes the relative proportion by volume of sapwood and heartwood.

9. Generally the softer a wood the better it takes and holds paint.

10. In repainting buildings use the paint of the same manufacturer as was originally used since coats of paints of different formula usually are not compatible.

11. Uneven coatings on wood cause warping.

12. Of all the lumber called or sold under a commercial or trade name including the words, "white pine," that cut from only the following species is true white pine:

   Northern white pine (P. strobus)
   Western (Idaho) white pine (P. monticola)
   Sugar pine (P. lambertiana)
   Limber pine (P. flexilis)
   Whitebark pine (P. albicaulis)
   Mexican white pine (P. strobiformis)

All others belong to the hard or southern yellow pine group (i.e., longleaf, shortleaf, loblolly, slash, etc.); or to the intermediate, red, or nut group (i.e., Norway, lodgepole, jack, ponderosa, pinon, etc.).

FUEL VALUE OF WOOD

(Local species and typical others for comparison)

Approximate equivalents of one ton (2,000 pounds) of coal in terms of one cord of 128 cubic feet containing 80 cubic feet of solid wood.

One cord of	One and one-half cords of	Two cords of
Oaks	Soft maple	Cedars
Locusts	Sycamore	Cypress (Cupressus)
Hard maple	Mesquite tops	Cottonwoods
Ashes	Douglas fir	Aspen
Hickory	Southern pines	Other pines
Mesquite roots	Hemlocks	
	Larch	

NOTE: Of all American species of wood, mesquite is one of the few in which the root-wood is of higher specific gravity than above-ground wood. It pays to use root-wood for fuel and the grubbing will improve many of our ranges.

Water Yield From Small Typical Mountain Watershed,
Open Forest Cover--Elevation 5,000 to 6,000
Applicable to Central Arizona
(Data from Parker Creek Branch Station)

Year	Season	Rain Inches	Run-off Cubic Feet	Cubic Feet Per Acre	Total rain Before run-off began	Lag in days before run-off began	Percent run-off to rain-fall	Acre-feet per inch of rain
1934	Summer	7.54	220,770	315	5.17	60	1.0	0.7
1934	Winter	19.93	17,959,000	25,700	1.00	1	35.5	21.0
1935	Summer	7.78	25,895	37	3.30	30	0.1	0.08
1935	Winter	16.64	13,683,403	19,600	1.11	15	32.3	19.0

Water measurements recorded by weirs at lower extremity of watershed.

WILDLIFE AND RANGE MANAGEMENT

Livestock Actually Grazed Under Permit On National Forests

ARIZONA

C.Y.	Cattle	Horses	Sheep	Goats	Swine	Exempt Livestock		
1926	227,198	2,539	257,575	1,140	271	21,551		
1927	207,517	2,631	337,786	1,796	268	21,097		
1928	186,277	2,231	286,231	1,766	460	19,495		
1929	181,125	1,951	351,221	1,397	455	18,631		
1930	172,024	1,533	352,368	426	272	11,073		
1931	178,900	1,427	331,329	3,345	196	10,778		
1932	181,388	1,391	262,652	1,786	157	10,460		
1933	185,711	1,312	361,013	0	115	10,824		
1934	188,281	1,018	245,189	10	80	10,629		
1935	181,363	912	252,117	0	55	10,398		
1936	180,046	1,074	270,029	600	50	11,273		
1937	182,421	1,014	242,182	600	42	11,261		
1938	183,396	1,042	223,993	600	45	11,287		
1939	171,778	1,198	199,086	800	45	10,087		
1940	149,896	1,397	155,068	800	45	9,335		
	C&H		S&G			C&H	S&G	Swine
*1941	158,377		142,444		30	8,827	10	10
*1942	157,500		143,948		45	8,504	10	9
*1943	158,640		135,560		45	8,550	-	-

* C&H and S&G figures combined in present annual grazing report.

WILDLIFE AND RANGE MANAGEMENT

Livestock Actually Grazed Under Permit on National Forests

NEW MEXICO

C.Y.	Cattle	Horses	Sheep	Goats	Swine	Exempt Livestock	
1926	91,364	3,071	197,931	10,390	180	13,463	
1927	89,909	3,350	220,916	11,696	145	11,190	
1928	81,065	3,446	227,651	10,491	168	12,167	
1929	81,044	3,381	244,509	10,427	134	11,024	
1930	82,049	2,964	225,577	10,526	84	11,044	
1931	86,197	2,651	217,044	9,592	102	10,374	
1932	88,669	2,148	211,156	10,850	104	11,581	
1933	91,747	1,704	191,617	10,225	60	11,488	
1934	92,923	1,548	200,156	8,082	19	11,467	
1935	89,174	1,755	179,410	8,639	15	7,641	
1936	86,636	1,894	189,446	6,988	0	10,425	
1937	86,776	1,841	164,709	6,638	0	10,473	
1938	84,136	1,869	167,524	6,417	0	10,016	
1939	89,120	2,028	168,230	4,969	0	11,766	
1940	89,105	1,720	157,601	5,163	0	12,373	
	C&H		S&G			C&H	S&G
*1941	86,381		168,529		0	9,344	1,474
*1942	87,519		164,952		51	8,631	1,369
*1943	87,608		150,695		209	9,388	1,168

*C&H and S&G figures combined in annual grazing reports.

WILDLIFE AND RANGE MANAGEMENT

Estimates Of Game On National Forests

	Year	Fur-Bearing Animals								
		Badger	Beaver	Fox	Mink	Muskrat	Raccoon	Ringtail Cat	Skunk	Weasel
Arizona	1936	4,075	940	21,450	55	*	6,535	5,775	44,800	2,360
	1937	4,110	930	20,550	70		6,840	6,110	43,200	2,210
	1938	3,640	960	20,370	50		6,950	6,730	42,500	2,090
	1939	3,000	931	20,400	20		6,200	7,200	41,700	2,200
	1940	3,300	957	21,300	300		7,300	8,600	35,500	2,200
	1941	3,200	950	21,600	300		7,500	8,600	34,600	2,700
	1942	3,200	1117	19,860	60	1,500	8,300	7,800	35,600	2,700
	1943	3,100	1195	20,630	55	2,340	7,720	*	40,460	1,235
New Mex.	1936	2,650	1720	6,935	495	*	1,545	2,000	28,365	1,630
	1937	2,710	1770	6,990			1,700	1,850	29,480	1,680
	1938	2,940	1810	6,810	410		1,760	2,120	28,430	4,240
	1939	3,090	1860	6,900	400		1,700	2,250	27,000	4,200
	1940	3,400	2322	6,700	300		1,800	2,500	35,300	3,000
	1941	3,400	2522	6,900	500		1,800	2,700	28,100	6,300
	1942	3,310	2770	7,200	500	1,830	1,800	2,600	27,200	6,200
	1943	3,790	2835	7,680	470	2,090	1,810	*	28,400	6,560
Total Region 3	1936	6,725	2660	28,385	550		8,080	7,775	73,165	3,990
	1937	6,820	2700	27,540	600		8,540	7,860	72,680	3,890
	1938	6,580	2770	27,180	460		8,710	8,850	70,930	6,330
	1939	6,090	2791	27,300	430		7,900	9,450	68,700	6,400
	1940	6,700	3279	28,000	600		9,100	11,100	70,800	5,200
	1941	6,600	3472	28,500	800		9,300	11,300	62,700	9,000
	1942	6,510	3887	27,060	560	3,330	10,100	10,400	62,800	8,900
	1943	6,890	4030	28,310	525	4,430	9,530	*	68,860	7,795

*Data not available.

WILDLIFE AND RANGE MANAGEMENT

Estimates Of Game On National Forests

		Game Animals								
		Bear								
	Year	Antelope	Black or Brown	Silver Tip or Grizzly	Deer	Elk	Mtn. Sheep	Pecary or Javelina	Squirrel	Turkey
Arizona	1936	5040	820	-	81,090	4605	175	5,405	54,810	10,290
	1937	5490	840	-	73,980	4400	200	5,810	57,900	10,620
	1938	5320	865	1	70,020	4140	210	6,140	43,590	9,990
	1939	5100	860	1	67,780	4290	220	7,100	25,400	8,990
	1940	5400	970	-	62,500	4340	215	*	*	8,370
	1941	5900	950	-	61,700	4300	210	7,100	298,330	8,760
	1942	5500	1020	-	64,995	4100	200	8,400	*	9,400
	1943	5235	960	-	61,995	4095	190	8,700	*	*
New Mex.	1936	1040	1350	5	86,460	855	115	-	40,450	14,400
	1937	1180	1320	4	76,400	880	55	400	38,400	12,500
	1938	1460	1330	3	72,200	965	90	300	38,800	13,120
	1939	1550	1324	2	69,130	1040	70	400	36,500	12,350
	1940	1700	1430	2	69,300	1060	55	*	*	11,100
	1941	2100	1400	2	68,800	1200	60	400	340,500	10,810
	1942	2300	1342	-	68,100	1300	60	500	*	11,000
	1943	2395	1412	-	68,250	1497	90	500	*	*
Total Region 3	1936	6080	2170	5	167,550	5460	290	5,405	95,260	24,690
	1937	6670	2160	4	150,380	5280	255	6,210	96,300	23,120
	1938	6780	2195	4	142,220	5105	300	6,440	82,390	23,110
	1939	6650	2184	3	136,910	5330	290	7,500	61,900	21,340
	1940	7100	2400	2	131,800	5400	270	*	*	19,470
	1941	8000	2350	2	130,500	5500	270	7,500	638,830	19,570
	1942	7800	2362	-	133,095	5400	260	8,900	*	20,400
	1943	7630	2372	-	130,245	5592	280	9,200	*	*

*Data not available.

WILDLIFE AND RANGE MANAGEMENT
Estimates of Game On National Forests

	Year	Predatory Animals: Bobcat or Lynx	Coyotes	Mt. Lions	Wolf	Wild Dogs
Arizona	1936	12,860	20,850	513	10	*
	1937	12,340	20,560	490	12	*
	1938	11,560	21,530	500	25	25
	1939	10,090	17,875	460	22	13
	1940	10,000	21,900	480	13	20
	1941	11,580	23,500	490	15	20
	1942	10,870	28,500	455	21	*
	1943	10,940	28,090	475	8	*
New Mexico	1936	6,345	11,325	420	24	12
	1937	6,680	12,040	375	16	6
	1938	6,690	12,040	375	30	20
	1939	7,980	14,050	442	22	38
	1940	6,700	11,500	383	18	24
	1941	6,590	12,180	342	24	30
	1942	10,440	13,100	307	11	*
	1943	7,650	13,930	311	5	*

	Year	Game Animals Killed by Man: Antelope	Bear Black or Brown	Deer	Elk	Peccary or Javelina	Squirrel	Wild Turkey
Arizona	1936	20	85	3,330	100	25	455	755
	1937	-	107	3,195	66	10	455	660
	1938	-	44	3,045	81	*	215	600
	1939	6	74	2,750	82	*	260	512
	1940	3	97	2,943	91	*	200	510
	1941	294	71	3,240	152	*	170	715
	1942	165	56	3,340	279	120	*	510
	1943	336	71	3,507	445	130	*	*
New Mexico	1936	50	75	2,005	15	*	1,840	830
	1937	-	94	2,315	11	*	3,840	832
	1938	70	96	2,545	10	*	2,720	945
	1939	46	96	3,042	19	*	2,200	646
	1940	55	100	4,050	25	*	2,600	560
	1941	122	97	4,403	31	*	2,350	629
	1942	123	54	3,428	51	10	*	370
	1943	135	50	5,157	135	10	*	*
Total Region 3	1936	70	160	5,335	115	25	2,295	1,585
	1937	-	201	5,110	77	35	4,295	1,492
	1938	70	145	5,510	91	*	2,935	1,545
	1939	52	170	5,792	101	*	2,460	1,158
	1940	58	197	6,993	116	*	2,800	1,070
	1941	416	168	7,643	183	*	2,520	1,344
	1942	288	110	6,768	330	130	*	880
	1943	471	121	8,664	580	140	*	*

*Data not available.

WILDLIFE AND RANGE MANAGEMENT

Game Animals Killed By Predatory Animals

	Year	Antelope	Deer	Elk	Peccary or Javelina	Mountain Sheep	Squirrel	Turkey
Arizona	1936	245	11,430	50	290	10	10,290	2,730
	1937	310	10,060	25	795	10	10,100	2,575
	1938	275	11,135	40	-	10	2,690	1,640
	1939	280	11,065	100	-	21	3,900	2,000
	1940	460	10,800	115	*	15	*	*
	1941	462	9,100	235	*	18	*	*
	1942	*	*	*	*	*	*	*
	1943	*	*	*	*	*	*	*
New Mexico	1936	125	10,730	15		15	5,900	2,905
	1937	120	7,155	15	10	5	3,685	3,250
	1938	145	6,945	20		10	4,300	3,120
	1939	175	6,590	17		10	4,200	3,200
	1940	105	6,400	55	*	15	*	*
	1941	175	6,500	55	*	8	*	*
	1942	*	*	*	*	*	*	*
	1943	*	*	*	*	*	*	*
Total Region 3	1936	370	22,160	65	290	25	16,190	5,635
	1937	430	17,215	40	805	15	13,845	5,825
	1938	420	18,080	60	-	20	6,990	4,760
	1939	455	17,655	117	-	31	8,100	5,200
	1940	565	17,200	170	*	30	*	*
	1941	637	15,600	290	*	26	*	*
	1942	*	*	*	*	*	*	*
	1943	*	*	*	*	*	*	*

Predatory Animals Killed on National Forests

	Year	Wild Cat or Lynx	Coyotes	Wild Dog	Lion	Wolf	Number of Hunters
Arizona	1936	2,395	4,735		160	7	
	1937	1,655	4,485		160	10	
	1938	1,400	4,500		135	9	
	1939	*					
	1940	809	3,146		153	4	
	1941	894	3,596		86	1	
	1942	*	*		*	*	
	1943	179	944		48	1	8**
New Mexico	1936	910	1,595	3	105	4	
	1937	1,260	2,005		65	17	
	1938	1,200	2,230		95	18	
	1939	*					
	1940	1,479	4,668		221	7	
	1941	503	1,580		67	3	
	1942	*	*		*	*	
	1943	21	114		1	-	12**

*Data not available

** Number of hunters working part time on National Forests.

Total Area Available for Livestock
(Includes National Forest Range)

	Arizona	New Mexico	Total
Total Land Area	72,838,400	78,401,920	151,240,320
Barren and Unaccessible	8,396,803	1,266,940	9,663,743
Other Non-grazable	1,853,855	3,059,800	4,913,655
Total Non-grazable	10,250,658	4,326,740	14,577,398
Total Gross Grazable	62,587,742	74,075,180	136,662,922
Closed to Grazing	782,169	270,658	1,052,827
Total Net Area Available for Livestock - Acres	61,805,573	73,804,522	135,610,095
Percent	84.9	94.1	89.5

GOVERNMENT OWNED WILDLIFE AND RANGE USE IMPROVEMENTS - JUNE 30, 1943

ARIZONA

Forest	Range Use Improvements: Fences & Corrals Miles	Stock Driveways Miles	Water Developments Number	Artificial Reseeding Acres	Cost	Wildlife Use Improvements: Game Refuge Fences Miles	Fish Rearing Ponds Number	Stream & Lake Imp. Number	Cost
Apache	445	45	120	-	$ 169,372	3.5	5	16	59,991
Coconino	1090	-	314	-	456,479	-	-	7	40,081
Coronado	1313	-	548	-	585,482	-	-	1	15,328
Crook	749	-	297	2300	453,657	-	-	8	18,041
Kaibab	525	5.5	175	-	314,901	-	-	1	3,670
Prescott	913	7.5	258	-	493,774	4.3	-	-	3,814
Sitgreaves	402	-	63	-	151,210	-	10	1	4,717
Tonto	911	118	345	10	330,024	-	-	5	17,504
Total Forests	6348	176	2120	2310	2,954,899	7.8	15	39	163,176
Swn. Forest & Range Exp. Sta.	121	-	54	-	84,074	-	-	-	-
GRAND TOTAL ARIZ.	6469	176	2174	2310	$3,038,973	7.8	15	39	$ 163,176

GOVERNMENT OWNED WILDLIFE AND RANGE USE IMPROVEMENTS - JUNE 30, 1943

NEW MEXICO

Forest	Range Use Improvements: Fences & Corrals Miles	Stock Driveways Miles	Water Developments Number	Artificial Reseeding Acres	Cost	Wildlife Use Improvements: Game Refuge Fences Miles	Fish Rearing Ponds Number	Stream & Lake Imp. Number	Cost
Apache	667	-	74	-	$ 213,552	-	-	-	$ -
Carson	445	-	95	-	191,398	-	-	12	25,193
Cibola	1368	-	173	-	475,099	-	-	3	11,628
Coronado	69	-	41	-	28,069	-	-	-	-
Gila	1370	-	199	261	592,501	2.5	-	12	14,208
Lincoln	939	-	164	45	535,549	-	-	1	7,591
Santa Fe	588	44.0	24	-	191,361	-	-	31	24,071
Total Forests	5446	44.0	770	306	2,227,529	2.5	-	59	82,691
Swn. Forest & Range Exp. Sta.	132	-	7	-	57,794	-	-	-	-
TOTAL- N. MEX.	5578	44.0	777	306	$ 2,285,323	2.5	-	59	82,691
Region 3 Total Forests	11794	220	2890	2616	$ 5,182,428	10.3	15	98	245,867
Total-Swn. For. & Range Exp. Sta.	253	-	61	-	141,868	-	-	-	-
GRAND TOTAL R-3	12047	220	2951	2616	$ 5,324,296	10.3	15	98	$ 245,867

Distribution of Lands in Arizona	Area Acres	% To Total Area of State
Federal		
Indian Reservations	19,224,717	26.40
Grazing Districts and Public Domain	9,011,697	12.37
National Parks and National Monuments	2,394,568	3.29
Soil Conservation Service	10,454	.01
Santa Rita Experimental Range	52,604	.07
Southwestern Forest & Range Experiment Station	245	-
National Forests (net)*	11,421,169	15.68
Other Federal Lands	5,823,950	8.00
Total Federally Owned or Managed	47,939,404	65.82
State		
Total State Owned	8,356,497	11.47
Private		
Private in farms and ranches	13,964,572	19.17
Private - other	2,577,927	3.54
Total Privately Owned	16,542,499	
Total Area of State	72,838,400	100.00

Distribution of Lands in New Mexico		
Federal		
Indian Reservations	7,153,109	9.12
Grazing Districts and Public Domain	14,612,786	18.64
National Parks and National Monuments	163,434	.21
Jornada Experimental Range	189,940	.24
National Forests (net) *	8,573,527	10.94
Soil Conservation Service	566,177	.72
Other Federal Lands	1,371,725	1.75
Total Federally Owned or Managed	32,630,698	41.62
State		
Total State Owned	12,700,968	16.20
Private		
Private in Farms and Ranches	29,592,372	37.74
Private - Other	3,477,882	4.44
Total Privately Owned	33,070,254	
Total Area of State	78,401,920	100.00
Total Area of Region 3	151,240,320	

* Latest available figures

The net forest area in Arizona and New Mexico totals:	19,994,696
The gross forest area in Arizona	12,105,614
The gross forest area in New Mexico	9,892,426
TOTAL	21,998,040

Special Uses - Fiscal Year - 1941

In Force 6/30/41*

	Free	Charge	Total
Arizona	3,763	1,435	5,198
New Mexico	1,668	770	2,438
Region 3	5,431	2,205	7,636

Land Exchange
Total Number consummated Cases to June 30, 1943, Inc.

Offered Lands - Total Consummated		Area Accepted	Estimated Value
Arizona	70	225,598	$ 494,473
New Mexico	64	192,006	623,351
Total	134	417,604	$1,117,824

Selected Lands - Total Consummated

State	Area	Land Value	Timber M. Ft. B.M.	Timber Value
Arizona	21,314	$ 51,014	158,510	$ 381,243
New Mexico	22,789	37,529	218,468	496,808
Region Total	44,103	$ 88,543	376,978	$ 878,051

NATIONAL FOREST AREAS

Fiscal Year 1943

Arizona	Net Area	New Mexico	Net Area
Apache	679,432	Apache	889,698
Coconino	1,749,586	Carson	1,108,142
Coronado	1,317,118	Cibola	1,627,119
Crook	1,422,686	Coronado	124,988
Kaibab	1,773,489	Gila	2,395,777
Prescott	1,265,462	Lincoln	1,175,971
Sitgreaves	802,846	Santa Fe	1,251,832
Tonto	2,410,550		
Total Arizona	11,421,169	Total N.M.	8,573,527

Net area of the 160 National Forests in the U. S. 177,237,901 Acres (F.Y. 1942)

*No report submitted for 1943

IMPROVED PUBLIC RECREATION AREAS ON NATIONAL FORESTS IN REGION 3

*Indicates both picnic grounds and forest camps

ARIZONA

Apache

Picnic Grounds (3)

South Fork*
Elderberry
Alpine

Forest Camps (22)

South Fork*
Benny Creek
Greer
East Fork
Sheep Crossing
Big Lake
West Fork
Colonel
Warren
P. S.
Diamond Rock
Aspen
Hall
Beaver Dam
Buffalo Crossing
Hannagan
K. P. Cienega
Grant Creek
Lower Blue
Middle Blue
Blue Crossing
Upper Blue

Vistas (1)

Blue

Coconino

Picnic Grounds (3)

Lake Mary*
Fulton Spring
Schnebly Hill

Forest Camps (11)

Townsend
Kit Carson
Lake Mary*

Coconino (Continued)

Forest Camps

Dairy Springs
Double Springs
"R. H."
Kehl Spring
Pine Flat
Sliderock
Banjo Bill
Manzanita

Vistas (4)

Oak Creek
Schnebly Hill
Bakers Butte
Mogollon Rim

Winter Sports Areas (1)

Arizona Snow Bowl

Coronado

Picnic Grounds (6)

Sabino Canyon
Bog Springs
Roundup
Cochise
John Hands
Sunny Flat

Forest Camps (21)

Bear Wallow
Soldier Camp
Middle Sabino
Marshall Gulch
Madera Canyon
Big Rock
Calabasas
Pena Blanca
Rucker
Bathtub
Cypress
Hermitage
Morse
Sycamore
Turkey Creek
Pinery
Rustler Park
Herb Martyr
South Fork
Stewart
Idlewild

Winter Sports Areas (1)

Rustler Park

ARIZONA (Cont'd)

Crook

Picnic Grounds (9)

Marijilda
Noon Creek
Wet Canyon
Turkey Flat
Pioneer Pass
Kellner Canyon
Pinal Mountain
Warnica Springs
Oak Flat

Forest Camps (12)

Stray Horse
Engineer Spring
Upper Juan Miller
Lower Juan Miller
Honeymoon
Granville
Stockton Pass
Arcadia
Shannon
Hospital Flat
Soldier Creek
Jones Water

Kaibab

Picnic Grounds (5)

Garland Prairie
White Horse
Sycamore
Lava Cave
The Rocks

Forest Camps (6)

Parks
Spitz Spring
Old Bill Williams
J. D. Dam
Jacob Lake
V.T.

Vistas (4)

Garland Prairie
Sycamore
House Rock
Kanab

Kaibab (Continued)

Winter Sports Areas (1)

Williams East

Prescott

Picnic Grounds (5)

Granite Basin*
Thumb Butte
The Playgrounds
Potato Patch
Turney Gulch

Forest Camps (8)

Granite Basin*
Granite Creek
Indian Creek
Wolf Creek
Mingus Mountain
Powell Springs
Hazelett Hollow
Kentuck Spring

Vistas (2)

Granite Basin
Caldwell Canyon

Winter Sports Areas (2)

Mingus Mountain
Indian Creek

Sitgreaves

Picnic Grounds (1)

Promontory

Forest Camps (3)

Chevalon
Lakeside
Pinetop

Vistas (1)

Promontory Tower

Winter Sports Areas (1)

Springer Mountain

ARIZONA (Cont'd)

Tonto

Picnic Grounds (6)

Cave Creek
Seven Springs
Camp Creek
Coon Bluff
Blue Point
Canyon Lake

Forest Camps (8)

Broncho Canyon
Blue Point
Apache Lake
Pine
Sycamore
Horton-Tonto Creek
Reynolds Creek
Rose Creek

Total Developed Areas

Arizona

Picnic Grounds	-	38
Forest Camps	-	91
Winter Sports	-	6
Vistas	-	12
		147

NEW MEXICO

Apache

Picnic Grounds (1)

Pueblo Park

Forest Camps (1)

Cottonwood Canyon

Vistas (1)

Chimney Rock

Carson

Picnic Grounds (3)

The Cave
El Rito*
Echo Cave

Forest Camps (22)

El Nogal
La Viniteria
Las Petaca
Capulin
La Sombra
Comales
Agua Piedra

NEW MEXICO (Cont'd)

Carson (Cont'd)

Forest Camps

La Junta
Angostura
Santa Barbara
Hondo Canyon
Cabresto Lake
Eagle Rock
Columbine
Goat Hill
La Bobita
Elephant Rock
June Bug
Lagunitas
La Jara
El Rito*
Canjilon

Winter Sports Areas (3)

Agua Piedra
Red River
El Rito

Cibola

Picnic Grounds (24)

Juan Tabo
La Cueva
Cole Spring
Cienega Canyon
Sulphur Canyon
Doc Long
Tree Spring
Dry Camp
Balsam Glade
Capulin
Sandia Crest
Kiwanis Point
Las Huertas Creek
Pine Flat
Cedro Peak
Tajique
New Canyon
Canyon Colorado*
Mountainair Ranger Station
Springtime*
Luna Park
Water Canyon*
McGaffey
Whitewater

Cibola (Cont'd)

Forest Camps (10)

Fourth of July Spring
Capillo Peak
Canyon Colorado*
Springtime*
Water Canyon*
Bear Trap
Hughes Mill
Lobo
Quaking Aspen
Turkey Spring

Winter Sports Areas (2)

Sandia Mountain
McGaffey

Vistas (3)

Sandia Crest
Kiwanis Point
Capillo Peak

Gila

Picnic Grounds (5)

Little Walnut
Cherry Creek
McMillen
Pine Flat
Bursum

Forest Camps (12)

Goforth
Iron Creek
Wrights Cabin
Rocky Canyon
Black Canyon
Gilita
Willow Creek
Ben Lilly
Upper Whitewater
Whitewater
Little Dry
Big Dry

Vistas (2)

Emory Pass
Negrito Tower

NEW MEXICO (Cont'd)

Santa Fe

Picnic Grounds (7)

Paliza*
Banco Bonito
Spence Spring
Little Tesuque
Dalton
E. V. Long
Brides

Forest Camps (21)

Battleship Rock
Jemez River
La Cueva
Calaveras
Rio las Vacas
East Fork
Jemez Falls
Las Conchas
Paliza*
Black Canyon
Fields Tract
Holy Ghost
Winsor Creek
Panchuela
Oak Flat
Brides
Fishing Hole
The Pine
Three Falls
Puerco
Mud Springs

Winter Sports Area (1)

Big Tesuque

Lincoln

Picnic Grounds (3)

Sitting Bull Falls
Cedar Creek
Red Cloud

Winter Sports Areas (1)

Cedar Creek

Lincoln (Cont'd)

Forest Camps (5)

James Canyon
Karr Canyon
Cherokee Bill
School House
Pine

Jornada Range Reserve

Picnic Grounds (1)

Rope Springs

TOTAL DEVELOPED AREAS

NEW MEXICO

Picnic Grounds	-	44
Forest Camps	-	71
Winter Sports	-	8
Vistas	-	6
		129

TOTAL DEVELOPED AREAS

REGION 3

Picnic Grounds	-	82
Forest Camps	-	162
Winter Sports	-	13
Vistas	-	18
		275

RECREATION VISITORS - 1943

(Estimates cover government owned lands only)

Recreation Areas	Arizona	New Mexico	Region 3
Campgrounds	46,432	21,276	67,708
Picnic Areas	112,575	74,094	186,669
Winter Sports Areas	2,500	6,600	9,100
Organization Camps	5,730	4,795	10,525
Hotels and Resorts	44,391	1,855	46,246
Recreation Residences	6,431	2,910	9,341
Wilderness Areas	392	4,611	5,003
Other Forest Areas	89,699	75,351	165,050
Highways and Roads	282,283	87,059	369,342
Totals	590,433	278,551	868,984

WILDERNESS AREAS

Arizona

Forest	Name of Area	Acreage: National Forest	Acreage: Other	Logging	Grazing	Final Approval
Apache (Crook)	Blue Range	216,737	1,427	Deferred	To Capacity	8-20-36
Tonto	Mazatzal	205,000	346	Limited	Conservative	6-13-40
Tonto (Crook)	Superstition	131,754	66	Limited	Conservative	4-17-40

New Mexico

Gila	Black Range	168,424	1,560	Discouraged	Conservative	8-20-36
Gila	Gila	566,474	5,730	Inaccessible	Continued	4-4-38
Santa Fe	Pecos Division	136,640	1,360	Discouraged	To continue	8-22-36

WILD AREAS

Arizona

Apache	Mt. Baldy	7,400		Inaccessible	Continued	8-20-36
Coconino Kaibab and Prescott	Sycamore Canyon	46,122	1,108	None	Continued	8-20-36
Coronado	Chiricahua	18,000		Discouraged	Conservative	9-18-40
Crook	Galiuro	55,000		Discouraged	Reserve Range	6-19-40
Prescott (Tonto)	Pine Mountain	17,424	76	None	To Decrease	8-22-36
Tonto	Sierra Ancha	33,934	66	Discouraged	Conservative	2-28-33

New Mexico

Lincoln	White Mountain	22,800	1,200	Discouraged	Conservative	8-20-36
Santa Fe	San Pedro Parks	41,132		Not contemplated	Continued	9-16-40

EXPERIMENTAL FORESTS

Arizona

Forest	Name of Area	Acreage: National Forest	Acreage: Other	Logging	Grazing	Final Approval
Coconino Kaibab	Fort Valley	4,770	-	Limited	None	1-28-36
Coconino	Long Valley	2,536	15	Limited	Capacity	3-31-36
Crook	Mt. Graham	3,040	-	Limited	Continued	3-23-32
Tonto	Sierra Ancha	13,255	-	None	Continued*	4-6-38

New Mexico

Lincoln	Cloudcroft	2,120	-	Limited	None	11-30-35

NATURAL AREAS

Arizona

Coconino	Oak Creek Canyon	940	-	None	None	10-15-31
Coconino	San Francisco Pks.	880	-	None	Conservative	10-15-31
Coronado	Butterfly Peak	1,000	-	None	Conservative	7-25-35
Coronado	Chiminea Canyon	160	-	None	Conservative	2-26-31
Coronado	Pole Bridge Canyon	320	-	None	Continued	2-26-31
Coronado	Santa Catalina	4,464	-	None	None	3-23-27

New Mexico

Santa Fe	Monument Canyon	640	-	None	None	10-1-32

RESEARCH AREA

New Mexico

Santa Fe	Univ. of New Mex.	10,000	-	Regular		5-29-30

*Parker Creek Area Closed